

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/30/04

Date Received: 09/23/04

Project: Metro Grab, PO# M94298, F&BI 409221

Date Extracted: 09/27/04

Date Analyzed: 09/27/04

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M94298 409221-01	0.60	0.79	0.91	<0.05
Method Blank	<0.05	<0.05	<0.10	<0.05

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**QUALITY ASSURANCE RESULTS
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 409221-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.60	0.60	0	0-20
Copper	mg/L (ppm)	0.79	0.77	3	0-20
Nickel	mg/L (ppm)	0.91	0.91	0	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 409221-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	5	0.60	100	50-150
Copper	mg/L (ppm)	5	0.79	99	50-150
Nickel	mg/L (ppm)	10	0.91	96	50-150
Zinc	mg/L (ppm)	5	<0.05	100	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	5	96	96	70-130	0
Copper	mg/L (ppm)	5	95	95	70-130	0
Nickel	mg/L (ppm)	10	95	94	70-130	1
Zinc	mg/L (ppm)	5	94	93	70-130	1

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

September 30, 2004

DUPLICATE COPY

INVOICE # 04ACU0930-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Grab, PO# M94298, F&BI 409221 - Results of testing
requested by Gerry Thompson for material submitted on September 23, 2004.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ \$80 per sample	<u>\$ 80.00</u>
Amount Due	\$ 80.00

FEDERAL TAX ID #(b) (6)

409221

SAMPLE CHAIN OF CUSTODY

CM 09-23-04

BI,

AKC-000814

Send Report To

Gerald Thompson

Company

Alaskan Copper Works

Address

628 S. Handford St

City, State, ZIP

Seattle WA 98134

Phone #

206-382-8379

Fax #

206-382-7309

SAMPLER'S (signature)

PROJECT NAME/NO.

METRO GRAB

PO #

M94298

REMARKS

Page # of

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Allyl, Ni, Zn				
M94298	01	9/23/04	12:30	Grd	1							X				

Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE

Relinquished by:

Received by:

Relinquished by:

Received by:

PRINT NAME

G. Thompson

S. Oborn

COMPANY

ACW

F&B, Inc

DATE

9/23/04

TIME

12:52pm

1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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September 30, 2004

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on September 23, 2004 from the Metro Grab, PO# M94298, F&BI 409221 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Morrow
Chemist

Enclosures
ACU0930R.DOC